

## EAST Search History

## EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	2	((("5342320") or ("20020193746")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/03/12 10:57
L2	11	("2002/0193746").URPN.	USPAT	OR	OFF	2010/03/12 11:18
L14	5	("4484915"   "4915699"   "5026353"   "5135510"   "5300040").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/03/12 11:24
L15	22	("5713871").URPN.	USPAT	OR	OFF	2010/03/12 11:25
L17	15	("2888924"   "3712301"   "3797489"   "4664653"   "4678461"   "5092843"   "5102393"   "5176643"   "5300030"   "5330430"   "5354286"   "5665071"   "5679111"   "5695472").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/03/12 11:28
L18	31	("5957897").URPN.	USPAT	OR	OFF	2010/03/12 11:29
L30	3	("4416663"   "4863434"   "4909792").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/03/12 11:49
L31	16	("2876770"   "3073306"   "3354881"   "4139009"   "4573976"   "4581025"   "4610667"   "4631057"   "4654034"   "4659330"   "4664654"   "4702738"   "4702739").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/03/12 11:49
L32	74	("4863434").URPN.	USPAT	OR	OFF	2010/03/12 11:50

L33	24	("2674246"   "4425120"   "4631057"   "4723943"   "4737144"   "4738663"   "4826491"   "4846796"   "4863434"   "4863435"   "4874383"   "4927416"   "4929241"   "4932947"   "4943282"   "4950249"   "5026353"   "5106379"   "5135510"   "5147303"   "5163917"   "5176656"   "5188614").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/03/12 11:52
L34	17	("5492536").URPN.	USPAT	OR	OFF	2010/03/12 11:54
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L37	39	("5342320").URPN.	USPAT	OR	OFF	2010/03/12 12:49
L38	38	("20060036217"   "3306290"   "4767413"   "4820275"   "4923447"   "4927416"   "4932947"   "4955868"   "5059184"   "5088986"   "5163918"   "5176656"   "5201708"   "5201720"   "5242416"   "5242420"   "5273541"   "5342320"   "5433712"   "5492536"   "5562624"   "5562626"   "5573513"   "5591138"   "5624400"   "5695475"   "6030366"   "6159184"   "6171283"   "6186980"   "6189980"   "6319233"   "6319234"   "6613022"   "6623459"   "7101355"   "RE37439"). PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/03/12 12:51
L39	0	("7429256").URPN.	USPAT	OR	OFF	2010/03/12 12:56
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		( "5320606") or ("5324272") or ("5344407") or ("5380296") or ("5415648") or ("5483973") or ("5611429") or ("5836920") or ("5858008") or ("6139533") or ("3677245") or ("3853157") or ("4062353") or ("4135510") or ("4121588") or ("4300678") or ("4307713") or ("4393864") or ("4425120") or ("4430080") or ("4559042") or ("4568336") or ("4631057") or ("4758230") or ("4781697") or ("4795432") or ("4810248") or ("4840185")).FN.				
S2	50	( "2398544"   "2752918"   "3542023"   "3811441"   "3867938"   "3889673"   "3895633"   "4031890"   "4031893"   "4254768"   "4328802"   "4378015"   "4427039"   "4445510"   "4468220"   "4553962"   "4624393"   "4645073"   "4689042"   "4713061"   "4738660"   "4747839"   "4755169"   "4838857"   "4861335"   "4886495"   "4900307"   "4904242"   "4923447"   "4927414"   "4929241"   "4938742"   "4941880"   "4969874"   "5013303"   "5024656"   "5092842"   "5106374"   "5114406"   "5137511"   "5163909"   "5169388"   "5180370"   "5188599"   "5201708"   "5244465"   "5267963"   "5281198"   "5295965"   "5300030"). FN.	US-PGPUB; USPAT	OR	OFF	2007/05/10 17:23

S3	8	((("5304128") or ("5320603") or ("5334162") or ("5342319") or ("5360410") or ("5391151") or ("5407431") or ("5407436"))).PN.	USPAT; USOCR	OR	OFF	2007/05/10 17:24
S4	11	((("5411489") or ("5433704") or ("5454786") or ("5460611") or ("5462525") or ("5472430") or ("5478316") or ("5489266") or ("5514097") or ("5531683") or ("5540665"))).PN.	USPAT; USOCR	OR	OFF	2007/05/10 17:27
S5	11	((("5545143") or ("5566729") or ("5599309") or ("5611779") or ("5637094") or ("5658259") or ("5681291") or ("5681292") or ("5713872") or ("5746215") or ("5746714"))).PN.	USPAT; USOCR	OR	OFF	2007/05/10 17:29
S6	11	((("5779668") or ("5779677") or ("5785682") or ("5788677") or ("5882342") or ("5928205") or ("6099503") or ("6099504") or ("6123688") or ("6149626") or ("6159181"))).PN.	USPAT; USOCR	OR	OFF	2007/05/10 17:32
S7	6	((("6210369") or ("6221046") or ("6280421") or ("6319234") or ("6387078") or ("6419658"))).PN.	USPAT; USOCR	OR	OFF	2007/05/10 17:34
S8	3	((("20030093036") or ("20030105430") or ("20010005781"))).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/05/10 17:36

S9	3	((("6544234") or ("6620137") or ("6743203"))).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/05/10 17:36
S10	1516	(604/110).CCL.S.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/05/10 17:36
S11	0	("2006/0229569").URPN.	USPAT	OR	OFF	2007/05/10 17:56
S12	142	(604/111).CCL.S.	USPAT; USOCR	OR	OFF	2007/05/10 17:59
S13	1131	(604/192).CCL.S.	USPAT; USOCR	OR	OFF	2007/05/10 18:00
S14	29	("3306290"   "4767413"   "4820275"   "4923447"   "4927416"   "4932947"   "4955868"   "5059184"   "5088986"   "5176656"   "5201708"   "5201720"   "5242416"   "5242420"   "5273541"   "5433712"   "5492536"   "5562624"   "5562626"   "5573513"   "5695475"   "6159184"   "6171283"   "6186980"   "6319234"   "6613022"   "6623459"   "RE37439"). PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/05/10 18:13
S15	5	("5242416"   "5372590"   "5562624"   "5762635"   "6461333").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/05/10 18:21
S16	0	("6872194").URPN.	USPAT	OR	OFF	2007/05/10 18:22
S17	3	("6030366"   "6319233"   "6679864").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/05/10 18:54
S18	498	(604/195).CCL.S.	USPAT; USOCR	OR	OFF	2007/05/10 19:12
S19	66	(604/196).CCL.S.	USPAT; USOCR	OR	OFF	2007/05/10 19:24
S20	217	(604/197).CCL.S.	USPAT; USOCR	OR	OFF	2007/05/10 19:31
S21	990	(604/198).CCL.S.	USPAT; USOCR	OR	OFF	2007/05/10 19:34
S22	594	(604/187).CCL.S.	USPAT; USOCR	OR	OFF	2007/05/10 19:34
S23	347	S22 and (cover\$3 or protect\$3 or shield\$3)	USPAT	OR	OFF	2007/05/10 19:37



S24	298	(604/181).COLS.	USPAT; USOCR	OR	OFF	2007/05/10 19:37
S25	347	S23 and (cover\$3 or protect\$3 or shield\$3)	USPAT	OR	OFF	2007/05/10 19:37
S26	149	S24 and (cover\$3 or protect\$3 or shield\$3)	USPAT	OR	OFF	2007/05/10 19:53
S27	3	((("6544234") or ("6620137") or ("6743203"))).PN.	USPAT; USOCR	OR	OFF	2007/05/10 19:56
S28	8	((("5304128") or ("5320603") or ("5334162") or ("5342319") or ("5360410") or ("5391151") or ("5407431") or ("5407436"))).PN.	USPAT; USOCR	OR	OFF	2007/05/10 19:58
S29	11	((("5411489") or ("5433704") or ("5454786") or ("5460611") or ("5462525") or ("5472430") or ("5478316") or ("5489266") or ("5514097") or ("5531683") or ("5540665"))).PN.	USPAT; USOCR	OR	OFF	2007/05/10 20:00
S30	11	((("5545143") or ("5566729") or ("5599309") or ("5611779") or ("5637094") or ("5658259") or ("5681291") or ("5681292") or ("5713872") or ("5746215") or ("5746714"))).PN.	USPAT; USOCR	OR	OFF	2007/05/10 20:01
S31	11	((("5779668") or ("5779677") or ("5785682") or ("5788677") or ("5882342") or ("5928205") or ("6099503") or ("6099504") or ("6123688") or ("6149626") or ("6159181"))).PN.	USPAT; USOCR	OR	OFF	2007/05/10 20:06

S32	6	((("6210369") or ("6221046") or ("6280421") or ("6319234") or ("6387078") or ("6419658"))).PN.	USPAT; USOCR	OR	OFF	2007/05/10 20:18
S33	11	((("2398544") or ("2752918") or ("3542023") or ("3811441") or ("3867938") or ("3889673") or ("3895633") or ("4031890"))).PN.	USPAT; USOCR	OR	OFF	2007/05/10 20:19
S34	11	((("4031893") or ("4254768") or ("4328802") or ("4378015") or ("4427039") or ("4445510") or ("4468220") or ("4553962") or ("4624393") or ("4645073") or ("4689042"))).PN.	USPAT; USOCR	OR	OFF	2007/05/10 20:21
S35	11	((("4713061") or ("4738660") or ("4747839") or ("4755169") or ("4838857") or ("4861335") or ("4886495") or ("4900307") or ("4904242") or ("4923447") or ("4927414"))).PN.	USPAT; USOCR	OR	OFF	2007/05/10 20:23
S36	11	((("4929241") or ("4938742") or ("4941880") or ("4969874") or ("5013303") or ("5024656") or ("5092842") or ("5106374") or ("5114406") or ("5137511") or ("5163909"))).PN.	USPAT; USOCR	OR	OFF	2007/05/10 20:24

S37	9	((("5169388") or ("5180370") or ("5188599") or ("5201708") or ("5244465") or ("5267963") or ("5281198") or ("5295965") or ("5300030"))).PN.	USPAT; USOCR	OR	OFF	2007/05/10 20:24
S38	98	((("20050027255") or ("20060229569") or ("20070112310") or ("20070265568") or ("5403288") or ("5823997") or ("5980488") or ("6149629") or ("4898590") or ("4994034") or ("5188599") or ("5370628") or ("5407431") or ("5609577") or ("5634906") or ("5709659") or ("5746733") or ("5832971") or ("5887633") or ("6213978") or ("6224576") or ("6213978") or ("6224576") or ("7090656") or ("20030023205") or ("20040206416") or ("5292318") or ("5478316") or ("6110148") or ("4923443") or ("4950240") or ("6270455") or ("6352523") or ("6656164") or ("4826491") or ("4474734") or ("5558649") or ("4401108") or ("4619651") or ("4950241") or ("5324272") or ("5344407") or ("5380296") or ("5415648") or ("5483973") or	US-PGPUB; USPAT; USOCR	OR	OFF	2008/05/08 15:21

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("6254569") or  
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S40	8	((("5114406") or ("5599309") or ("5681291") or ("6280421") or ("20030093036") or ("20030105430") or ("20040039336") or ("6544234")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/08/27 20:43
S41	3	("2003/0105430").URPN.	USPAT	OR	OFF	2008/08/27 20:48
S42	10	("3612051"   "3820652"   "4417887"   "4425120"   "4642099"   "4702739"   "4738663"   "4923446"   "5057089").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/08/27 20:51
S43	12	("5681291").URPN.	USPAT	OR	OFF	2008/08/27 20:52
S44	99	("2701566"   "2876770"   "20020120235"   "20020156426"   "20020161337"   "20020177819"   "20020193746"   "20030050606"   "20030093036"   "20030105430"   "20040019326"   "20050027255"   "2398544"   "2752918"   "3066670"   "3182660"   "3702609"   "3742948"   "3880163"   "3542023"   "3811441"   "3867938"   "3889673"   "3895633"   "4316463"   "4723937"   "4968299"   "4031890"   "4031893"   "4254768"   "4328802"   "4378015"   "4427039"   "4445510"   "4468220"   "4553962"   "4624393"   "4645073"   "4689042"   "4713061"   "4738660"   "4747839"   "4755169"   "4838857"   "4861335"   "4886495"   "4900307"   "4904242"   "4923447"   "4927414"   "4929241"   "4938742"   "4941880"   "4969874"   "5092842"   "5114406"   "5156599"   "5279581"   "5295965"   "5300030"   "5318538"   "5320609"	US-PGPUB; USPAT	OR	OFF	2008/08/27 21:18

		"5478316"   "5480387"   "5514097"   "5545147"   "5591136"   "5599309"   "5643214"   "5658259"   "5681291"   "5688251"   "5695472"   "5709668"   "5910130"   "5013303"   "5024656"   "5092842"   "5106374"   "5114406"   "5137511"   "5163909"   "5169388"   "5180370"   "5188599"   "5201708"   "5244465"   "5267963"   "5281198"   "5295965"   "5300030"   "6146361"   "6159181"   "6200296"   "6228067"   "6319233"   "6319234"   "6419658"   "6544234"   "6743203"   "6805686"   "7066907"   "7097634").PN.				
S45	82	("4923447").URPN.	USPAT	OR	OFF	2008/08/27 21:58
S46	5	("6530371").URPN.	USPAT	OR	OFF	2008/08/27 22:11
S47	81	("3874380"   "3874381"   "4060073"   "4061254"   "4235235"   "4344573"   "4405308"   "4583978"   "4599082"   "4613326"   "4673110"   "4767416"   "4883470"   "4919167"   "4923447"   "4923448"   "4929230"   "4944431"   "4962868"   "4964866"   "4966535"   "4986818"   "4994045"   "5071353"   "5171219"   "5181658"   "5284132"   "5289818"   "5331954"   "5368578"   "5427280"   "5431155"   "5437647"   "5447151"   "5496286"   "5511698"   "5514107"   "5519980"   "5582598"   "5584417"   "5601077"   "5607400"   "5630793"   "5655689"   "5662098"   "5665071"   "5692650"   "5702362"   "5722956"   "5769325"   "5779677"   "5813570"   "5860567"   "5862962"   "5875938"   "5879327"	US-PGPUB; USPAT; USOCR	OR	OFF	2008/08/27 22:11



		"5891085"   "5893484"   "5901883"   "5951526"   "5954695"   "5957897"   "5961495"   "6001089"   "6004299"   "6036675"   "6053893"   "6083197"   "6090077"   "6090080"   "6090082"   "6093170"   "6112743"   "6382204"   "D212991"   "D226767"   "D328643"   "D401323"   "D418222").PN.				
S48	11	("4850977"   "4850994"   "4887998"   "4911693"   "4921490"   "4923447"   "4932947"   "4957490"   "4973316"   "5013305"   "5026353").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/08/27 22:22
S49	29	("5176656").URPN.	USPAT	OR	OFF	2008/08/27 22:24
S50	0	("2006/0229569").URPN.	USPAT	OR	OFF	2008/08/27 22:32
S51	98	((("20050027255") or ("20060229569") or ("20070112310") or ("20070265568") or ("6656164") or ("5338311") or ("5403288") or ("5330440") or ("5514100") or ("5593391") or ("5685862") or ("5688253") or ("5891105") or ("5823997") or ("5980488") or ("6149629") or ("4445644") or ("4898590") or ("4994034") or ("5053010") or ("5188599") or ("5273541") or ("5344405") or ("5370628") or ("5407431") or ("5531704") or ("5609577") or ("5611782") or ("5626230") or ("5634906") or ("5709659") or	US-PGPUB; USPAT; USOCR	OR	OFF	2008/08/27 22:41

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		("3853157") or ("4062353") or ("4135510") or ("4121588") or ("4300678") or ("4307713") or ("4393864") or ("4425120") or ("4430080") or ("4559042") or ("4568336") or ("4631057") or ("4758230") or ("4781697") or ("4795432")).PN.				
S52	0	("2007/0265568").URPN.	USPAT	OR	OFF	2008/08/27 22:41
S53	0	("2005/0027255").URPN.	USPAT	OR	OFF	2008/08/27 22:42
S54	122	(604/193).CCLS.	USPAT; USOCR	OR	OFF	2008/08/27 22:54
S55	222	(604/197).CCLS.	USPAT; USOCR	OR	OFF	2008/08/27 22:56
S56	74	(604/197).CCLS.	US-PGPUB	OR	OFF	2008/08/27 23:09
S57	258	(604/198).CCLS.	US-PGPUB	OR	OFF	2008/08/27 23:18
S58	12	((("5858001") or ("5991655") or ("6186982") or ("6500150") or ("6099504") or ("6595956") or ("6364865") or ("6641565") or ("6645181") or ("6478771") or ("6530900") or ("6830560")).PN.	USPAT; USOCR	OR	OFF	2008/08/28 13:27
S59	7	((("6689108") or ("6572740") or ("6824529") or ("6843782") or ("6719719") or ("6723068") or ("7384413")).PN.	USPAT; USOCR	OR	OFF	2008/08/28 13:30

S60	11	((("6000548") or ("6500150") or ("6099504") or ("6595956") or ("6585707") or ("6520941") or ("6364865") or ("6641565") or ("6645181") or ("6478771") or ("6530900"))).PN.	USPAT; USOCR	OR	OFF	2008/08/28 13:46
S61	4	((("6319234") or ("6419658") or ("5201708") or ("4923447"))).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/03/15 17:24
S62	1	("20030229314").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/03/15 17:30
S63	0	("2003/0229314").URPN.	USPAT	OR	OFF	2009/03/15 17:35
S64	43	("20010004970"   "4585445"   "4655751"   "4675005"   "4723943"   "4731068"   "4737144"   "4738663"   "4744790"   "4744791"   "4767413"   "4804372"   "4820275"   "4826489"   "4834717"   "4919657"   "4931040"   "4935014"   "4946441"   "4988339"   "5067945"   "5078698"   "5098382"   "5167632"   "5167641"   "5201708"   "5269766"   "5306258"   "5336200"   "5346480"   "5350367"   "5358491"   "5360408"   "5368568"   "5405326"   "5429611"   "5445620"   "5531706"   "5624400"   "5989226"   "5997513"   "6033387"   "6036675"). PN.	US-PGPUB; USPAT	OR	OFF	2009/03/15 17:35

S65	58	( "2571653"   "2745403"   "3115135"   "4356822"   "4425210"   "4573976"   "4610667"   "4631057"   "4636201"   "4639249"   "4664259"   "4701165"   "4723943"   "4735618"   "4738663"   "4747830"   "4747837"   "4767413"   "4772272"   "4790827"   "4801295"   "4842587"   "4846796"   "4850961"   "4850994"   "4892523"   "4898590"   "4900311"   "4911693"   "4915695"   "4915696"   "4915697"   "4915698"   "4915699"   "4915700"   "4915701"   "4915702"   "4917672"   "4917673"   "4917679"   "4931040"   "4969877"   "4973316"   "4973317"   "4973318"   "4994045"   "5013302"   "5019043"   "5019044"   "5019051"   "5057079"   "5057087"   "5059185"   "5106379"   "5399170").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/03/15 17:43
S66	15	("5531706").URPN.	USPAT	OR	OFF	2009/03/15 17:55
S67	0	("2003/0229314").URPN.	USPAT	OR	OFF	2009/03/15 19:29
S68	98	(( "20050027255") or "20060229569") or "20070112310") or "20070265568") or "6656164") or "5338311") or "5403288") or "5330440") or "5514100") or "5593391") or "5685862") or "5688253") or "5891105") or "5823997") or "5980488") or "6149629") or "4445644") or "4898590") or "4994034") or "5053010") or "5188599") or	US-PGPUB; USPAT; USOCR	OR	OFF	2009/03/15 19:30

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		(("5324272") or ("5344407") or ("5380296") or ("5415648") or ("5483973") or ("5611429") or ("5836920") or ("5858008") or ("6139533") or ("3677245") or ("3853157") or ("4062353") or ("4135510") or ("4121588") or ("4300678") or ("4307713") or ("4393864") or ("4425120") or ("4430080") or ("4559042") or ("4568336") or ("4631057") or ("4758230") or ("4781697") or ("4795432")).PN.				
S69	27	(("2571653"   "4356822"   "4631057"   "4655751"   "4668223"   "4702738"   "4737144"   "4738663"   "4747837"   "4772272"   "4790827"   "4801295"   "4804372"   "4846796"   "4850994"   "4871355"   "4892523"   "4917679"   "4923445"   "4927018"   "4946447"   "4947863"   "4976702"   "5024616"   "5201721"   "5215535"). PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/03/15 22:16
S70	16	(("5498244")).URPN.	USPAT	OR	OFF	2009/03/15 22:20

S71	241	("20020161337"   "2571653"   "2845065"   "2876770"   "2925083"   "3323523"   "3377989"   "3463152"   "3536073"   "3574306"   "3610240"   "3658061"   "3780734"   "3884230"   "3890971"   "3904033"   "4048997"   "4170933"   "4170993"   "4356822"   "4365626"   "4373526"   "4416663"   "4425120"   "4573976"   "4631057"   "4655751"   "4664259"   "4666435"   "4681567"   "4693257"   "4695274"   "4702738"   "4702739"   "4737144"   "4743233"   "4772272"   "4795432"   "4813940"   "4816024"   "4826490"   "4846796"   "4846805"   "4850968"   "4850977"   "4850994"   "4863434"   "4863435"   "4867746"   "4874384"   "4892523"   "4894055"   "4897083"   "4900311"   "4911693"   "4923445"   "4923447"   "4927018"   "4927416"   "4929237"   "4931048"   "4932940"   "4932947"   "4936830"   "4946446"   "4966592"   "4969877"   "4985021"   "4998924"   "5000744"   "5002537"   "5011479"   "5013301"   "5019051"   "5045066"   "5057086"   "5057087"   "5059185"   "5061251"   "5066277"   "5067945"   "5084030"   "5098382"   "5098403"   "5106379"   "5116326"   "5127910"   "5137521"   "5141500"   "5147303"   "5147326"   "5152751"   "5154698"   "5163918"   "5169392"   "5176643"   "5176656"   "5176657"   "5197953"   "5201708"   "5201720"   "5207646"   "5215535"   "5217437"   "5242416"   "5256153"   "5259841"	US-PGPUB; USPAT; USOCR	OR	OFF	2009/03/15 22:22
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S72	10	("4973308"   "5069225"   "5092853"   "5484421"   "5616136"   "5681292"   "5984898"   "6090077"   "6096005"   "6221055"). PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/03/15 22:24
S73	25	("3306290"   "4194505"   "4316436"   "4413991"   "4820275"   "4927414"   "5019044"   "5084018"   "5188599"   "5330430"   "5330440"   "5385551"   "5405326"   "5423758"   "5478316"   "5501670"   "5613952"   "5632733"   "5634909"   "5681292"   "5800403"   "5891104"   "5957897"   "5997512"). PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/03/15 22:24
S74	5	("6221055").URPN.	USPAT	OR	OFF	2009/03/15 22:27
S75	3	("6273870").URPN.	USPAT	OR	OFF	2009/03/15 22:29
S76	5	("4484915"   "4915699"   "5026353"   "5135510"   "5300040").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/03/15 22:44
S77	3	("4923447"   "5201720"   "5242416").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/03/15 22:54
S78	18	("5300040").URPN.	USPAT	OR	OFF	2009/03/15 23:02

S79	40	("20030212380"   "2679246"   "4425120"   "4664654"   "4681567"   "4781692"   "4894055"   "4911693"   "5037402"   "5061251"   "5104384"   "5167635"   "5167640"   "5176656"   "5197953"   "5222945"   "5232457"   "5242420"   "5267972"   "5267977"   "5279566"   "5292314"   "5295975"   "5300040"   "5324265"   "5346480"   "5376080"   "5389085"   "5403286"   "5478316"   "5540667"   "5582597"   "5591138"   "5681292"   "5695475"   "6162197"   "6379336"   "6530905"   "6626864"). PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/03/15 23:04
S80	11	("4850977"   "4850994"   "4887998"   "4911693"   "4921490"   "4923447"   "4932947"   "4957490"   "4973316"   "5013305"   "5026353").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/03/15 23:11
S81	33	("5176656").URPN.	USPAT	OR	OFF	2009/03/15 23:13
S82	0	("7198617").URPN.	USPAT	OR	OFF	2009/03/15 23:23
S83	20	("5713871").URPN.	USPAT	OR	OFF	2009/03/15 23:26
S84	1	("5713871").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/03/15 23:29
S85	4	("6511460").URPN.	USPAT	OR	OFF	2009/03/15 23:29
S86	11	("4737144"   "4915699"   "4929237"   "4998924"   "5024660"   "5342309"   "5573514"   "5674203"   "5713871"   "6033387"   "6183445").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/03/15 23:34
S87	8	("6461333").URPN.	USPAT	OR	OFF	2009/03/15 23:35

S88	16	("4664653"   "4664654"   "4826489"   "4834717"   "4846808"   "4850961"   "4892107"   "4931040"   "4944723"   "4957490"   "5045066"   "5067490"   "5067948"   "5084017"   "5141500"   "5232457").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/03/15 23:41
S89	38	("5514107").URPN.	USPAT	OR	OFF	2009/03/15 23:42
S90	77	("1934046"   "2876770"   "3073306"   "3400715"   "3890971"   "4060073"   "4270537"   "4373526"   "4583978"   "4596556"   "4769003"   "4790824"   "4883573"   "4886499"   "4898588"   "4940460"   "4941880"   "4955871"   "4978344"   "5015235"   "5064413"   "5071353"   "5137516"   "5141496"   "5190521"   "5222949"   "5312335"   "5331954"   "5334144"   "5339163"   "5368578"   "5383851"   "5417662"   "5431155"   "5437647"   "5466220"   "5480381"   "5496286"   "5503627"   "5514107"   "5520639"   "5527288"   "5569189"   "5578014"   "5582598"   "5599302"   "5649912"   "5665071"   "5702362"   "5704911"   "5779677"   "5873856"   "5879327"   "5891085"   "5893397"   "5921963"   "5944700"   "5957897"   "5961495"   "5993412"   "6001089"   "6004299"   "6036675"   "6053893"   "6083197"   "6090077"   "6090080"   "6090082"   "6093170"   "6112743"   "6200291"   "6210369"   "6213977").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/03/15 23:44
S91	5	("6569123").URPN.	USPAT	OR	OFF	2009/03/15 23:47

S92	1	("6569123").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/08/13 11:59
S93	1335	(604/198).OCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/08/15 19:17
S94	16	("2876770"   "3073306"   "3354881"   "4139009"   "4573976"   "4581025"   "4610667"   "4631057"   "4654034"   "4659330"   "4664654"   "4702738"   "4702739").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/08/15 19:52
S95	72	("4863434").URPN.	USPAT	OR	OFF	2009/08/15 19:53
S96	24	("2674246"   "4425120"   "4631057"   "4723943"   "4737144"   "4738663"   "4826491"   "4846796"   "4863434"   "4863435"   "4874383"   "4927416"   "4929241"   "4932947"   "4943282"   "4950249"   "5026353"   "5106379"   "5135510"   "5147303"   "5163917"   "5176656"   "5188614").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/08/15 20:03
S97	16	("5492536").URPN.	USPAT	OR	OFF	2009/08/15 20:07
S98	3	("4416663"   "4863434"   "4909792").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/08/15 20:20
S99	34	("5342320").URPN.	USPAT	OR	OFF	2009/08/15 20:20
S100	15	("1892993"   "2537550"   "2646798"   "2855931"   "4702739"   "4820275"   "4863434"   "4894055"   "5088985"   "5116319"   "5163918").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/08/16 12:25
S101	30	("5201720").URPN.	USPAT	OR	OFF	2009/08/16 12:27
S102	14	("2571653"   "3306290"   "3672368"   "3890971"   "4631057"   "4804372"   "5049133"   "5061251"   "5084029"   "5135510"   "5201708"   "5201720"). PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/08/16 12:31

S103	4	("5344405").URPN.	USPAT	OR	OFF	2009/08/16 12:33
S104	19	("3055362"   "3134380"   "4031889"   "4725267"   "4795432"   "4846809"   "4892521"   "4911694"   "4915696"   "4943284"   "4986819"   "5015240"   "5026353"   "5059180"   "5167641"   "Re25279"). PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/08/16 12:41
S105	15	("5224936").URPN.	USPAT	OR	OFF	2009/08/16 12:42
S106	13	("2193322"   "2244969"   "2705956"   "3583399"   "3584626"   "4808169"   "4834717"   "4927414"   "4941883"   "4943282"). PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/08/16 12:47
S107	16	("5232457").URPN.	USPAT	OR	OFF	2009/08/16 12:49
S108	38	("1393720"   "2581182"   "3756390"   "4175704"   "4394863"   "4475905"   "4529403"   "4921142"   "4962868"   "4983164"   "5080649"   "5143211"   "5232457"   "5257726"   "5277334"   "5281198"   "5284132"   "5289818"   "5307953"   "5318544"   "5364350"   "5427280"   "5531683"   "5569192"   "5637087"   "5813570"   "5817055"   "5817056"   "5935101"   "5967369"   "6145703"   "6290679"   "6321942"   "6382465"   "6387074"   "6419656"). PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/08/16 12:51
S109	0	("6679248").URPN.	USPAT	OR	OFF	2009/08/16 13:03
S110	16	("4664653"   "4664654"   "4826489"   "4834717"   "4846808"   "4850961"   "4892107"   "4931040"   "4944723"   "4957490"   "5045066"   "5067490"   "5067948"   "5084017"   "5141500"   "5232457"). PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/08/16 13:06

S111	48	("4664653").URPN.	USPAT	OR	OFF	2009/08/16 13:07
S112	38	("5514107").URPN.	USPAT	OR	OFF	2009/08/16 13:13
S113	16	("5232457").URPN.	USPAT	OR	OFF	2009/08/16 13:17
S114	5	("4484915"   "4915699"   "5026353"   "5135510"   "5300040").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/08/16 13:42
S115	6	("3316909"   "3487834"   "3990446"   "4263911"). PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/08/16 13:44
S116	12	("4484915").URPN.	USPAT	OR	OFF	2009/08/16 13:44
S117	20	("5713871").URPN.	USPAT	OR	OFF	2009/08/16 13:45
S118	3	("4333458"   "5259841"   "5713871").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/08/16 13:46
S119	0	("6712793").URPN.	USPAT	OR	OFF	2009/08/16 13:47
S120	1	("5713871").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/08/16 13:47
S121	4	("6511460").URPN.	USPAT	OR	OFF	2009/08/16 13:48
S122	11	("4737144"   "4915699"   "4929237"   "4998924"   "5024660"   "5342309"   "5573514"   "5674203"   "5713871"   "6033387"   "6183445").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/08/16 13:49
S123	9	("6461333").URPN.	USPAT	OR	OFF	2009/08/16 13:50
S124	6	("5709662"   "5713871"   "5749856"   "5795336"   "5893845"   "5947936"). PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/08/16 13:59
S125	27	("6186980").URPN.	USPAT	OR	OFF	2009/08/16 14:01

S126	38	("20060036217"   "3306290"   "4767413"   "4820275"   "4923447"   "4927416"   "4932947"   "4955868"   "5059184"   "5088986"   "5163918"   "5176656"   "5201708"   "5201720"   "5242416"   "5242420"   "5273541"   "5342320"   "5433712"   "5492536"   "5562624"   "5562626"   "5573513"   "5591138"   "5624400"   "5695475"   "6030366"   "6159184"   "6171283"   "6186980"   "6189980"   "6319233"   "6319234"   "6613022"   "6623459"   "7101355"   "RE37439"). PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/08/16 14:04
S127	6	("4850968"   "4957490"   "5163918"   "5267976"   "5562624"   "5562626"). PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/08/16 14:05
S128	14	("6319234").URPN.	USPAT	OR	OFF	2009/08/16 14:07
S129	1	("5340364").PN.	USPAT; USOCR	OR	OFF	2009/08/16 14:15
S130	14	("4425120"   "4573976"   "4850994"   "4923447"   "5201708"   "5242240"   "5300030"   "5318538"   "5779677"   "6099503"   "6319233"   "6319234"   "6322540"   "6419658"). PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/08/16 14:20
S131	9	("6805686").URPN.	USPAT	OR	OFF	2009/08/16 14:22
S132	12	("3702608"   "5137516"   "5300030"   "5599309"   "5779677"   "6099503"   "6159181"   "6270479"   "6371939"   "6805686"   "6932793"   "7066907"). PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/08/16 14:24
S133	5	("3880163"   "4258713"   "5267963"   "5599309"   "6099503").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/08/16 14:25
S134	1	("7066907").URPN.	USPAT	OR	OFF	2009/08/16 14:26



S135	0	("7465289").URPN.	USPAT	OR	OFF	2009/08/16 14:29
S136	14	("6319234").URPN.	USPAT	OR	OFF	2009/08/16 14:43
S137	0	("7429256").URPN.	USPAT	OR	OFF	2009/08/16 15:15
S138	1	((("20020193746") or ("5342320")).PN.	USPAT; USOCR	OR	OFF	2009/08/16 15:29
S139	2	((("20020193746") or ("5342320")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/08/16 15:55

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